

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Page 1

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: J 05.10.11 Added D3429-1 per CHG004 KJ/CP/JLM/EC
IPP Rev:K 07-12-04 ECN 1080p DD verified by:ec
IPP Rev:L 08-09-29 as per DSI9421 DD verified by: EC IPP
Rev:M 09-03-02 as per DSI9440 rev.a verified by:EC
IPP Rev:N 09-03-03 as per DSI9421 rev.b verified by:EC IPP Rev:O
as per REV.N DD 10.04.19 verified by:EC IPP Rev:P 12.11.21
ECN12-679 DD verf:JLM IPP Rev:Q 14.04.25 ECN14-520
DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D206-642-341		Manufactured	No			110	Each	0.0000	1	1			
D206-642-341									**				
Replacement Skidtube (Fits LH or RH)													
D206-648-013		Manufactured	No			110	Each	9.0000	1	1			
D206-648-013									**				
Ground Handling Wheel Modification													
					<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>						
					ST636	9							
					145929	3							
					146632	2							
					147547	4							
D2932-2		Manufactured	No			110	Each	6.0000	1	1			
D2932-2									**				
Saddle RH Out, 206													
					<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>						
					ST396	6							
					142271	1							
					146533	1							
					147722	4							

150631
DAS 28 9-89
DAS 6 28 9-89
OCT 13 2016

OCT 13 2016
DAS 28 9-89
DAS 6 9-89

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				Completed By	
				Lead hand / Supervisor Approval Verification	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

D2933-2

Manufactured No

110

Each

7.0000

1

1

D2933-2

Saddle RH In, 206

**

OCT 13 2016

Location

Loc Qty

Loc Code

ST396

7

144735

2

145418

4

146534

1

DAS
27
9-89

DAS
28
9-89
6
9-89

D2938-2

Manufactured No

110

Each

2.0000

1

1

D2938-2

Saddle RH Out, 206

**

OCT 13 2016

Location

Loc Qty

Loc Code

ST395

2

146105

1

146535

1

DAS
27
9-89

DAS
28
9-89
6
9-89

D2939-2

Manufactured No

110

Each

4.0000

1

1

D2939-2

Saddle RH In, 206

**

OCT 13 2016

Location

Loc Qty

Loc Code

ST395

4

145435

3

146536

1

DAS
27
9-89

DAS
28
9-89
6
9-89

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Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-41A

Purchased

No

110

Each

242.0000

8

8

AN3-41A

Bolt

Location

Loc Qty

Loc Code

OCT 13 2016

FG

20

122416

20

over003

156

123355

156

ST347

66

123355

66

D2652

Manufactured

No

110

Each

370.0000

16

16

D2652

Bushing

Location

Loc Qty

Loc Code

OCT 13 2016

FG

45

31985

45

ST008A

325

148315

325

MS21042L3

Purchased

No

110

Each

1,509.000

8

8

MS21042L3

Nut

Location

Loc Qty

Loc Code

OCT 13 2016

FP001

14

m133790

14

GA

323

m134360

112

m135135

211

ST303

1172

m135135

572

m135407

600

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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
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150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363J

Purchased

No

110

Each

1,425.000

8

8

NAS1149D0363J

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

352

m134055

352

ST263

1073

m134955

73

m135297

1000

AN5-10A

Purchased

No

110

Each

188.0000

4

4

AN5-10A

Bolt

OCT 13 2016

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

30

122800

30

ST338

158

m135390

8

m135464

150

AN5-12A

Purchased

No

110

Each

40.0000

4

4

AN5-12A

Bolt

OCT 13 2016

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

30

M134754

30

ST338

10

M135056

10

DAS
27
9-89

OCT 13 2016

DAS
6
9-89

DAS
28
9-89

DQA: _____ Date: _____



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Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN5-11A Purchased No

110 Each

97.0000

8

8

AN5-11A

BOLT

**

OCT 13 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

ST338

97

M134134

60

M134762

37

NAS1149D0563J

Purchased

No

110

Each

1,224.000

8

8

NAS1149D0563.J

Washer

**

OCT 13 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

GA

117

m125807

2

m133769

115

ST260a

600

m135470

600

ST263

408

m134497

4

m135058

404

ST269

99

m128257

99

DAS 6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, August 29, 2016 3:06:13 PM

Page 6

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN4-6A Purchased No 110 Each 580.0000 12 12

AN4-6A
BOLT

DAS 6 OCT 13 2016 9-89

DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
over003	400	
M134852	0	
M135390	200	12
M135407	200	
ST345	180	
M128634	2	
M134852	6	
M134943	172	

NAS1149D0463J Purchased No 110 Each 2,326.000 24 24

NAS1149D0463.J
Washer

DAS 6 OCT 13 2016 9-89

DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
GA	240	
M132035	15	
M134508	32	
M135056	193	
ST260a	1000	
M135407	1000	
ST263	1074	
M134039	24	
M135390	1050	
ST2663	12	
M134039	12	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 7

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

2,081.000

12

12

MS21042L 4

Nut

**

135603

OCT 13 2016

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

FP001

51

m133363

51

GA

424

m133769

116

m135058

308

ST3003

25

m134955

25

ST303

1581

m133769

12

m134055

24

m135297

545

m135470

1000

D3407-043

Manufactured

No

110

Each

27.0000

1

1

D3407-043

Tow Ring

**

OCT 13 2016

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

st530

16

146014

4

146936

12

ST532A

11

147575

11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

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Page 8

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

D3456-1 Manufactured No 110 Each 64.0000 1 1

D3456-1

Washer

OCT 13 2016

Location	Loc Qty	Loc Code
FG	7	
25701	7	
ST037	57	
144158	1	
147799	23	
<u>149551</u>	24	
149710	9	

DAS
27
9-89

DAS
28
6
9-89

D3457-1 Manufactured No 110 Each 86.0000 2 2

D3457-1

Washer

OCT 13 2016

Location	Loc Qty	Loc Code
FG	10	
32409	10	
ST037	76	
145625	76	

DAS
27
9-89

DAS
6
9-89
28
9-89

MS21043-4 Purchased No 110 Each 571.0000 1 1

MS21043-4

Nut

OCT 13 2016

Location	Loc Qty	Loc Code
FG	40	
104603	40	
GA	17	
m132803	17	
ST302	514	
m135390	214	
m135407	300	

DAS
27
9-89

DAS
28
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Picklist Print

Monday, August 29, 2016 3:06:13 PM

Page 9

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN4C5A Purchased No

110 Each 75.0000 1 1

AN4C5A

Bolt

**

OCT 13 2016

DAS 28
6 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
FP001	49	
m133990	49	
ST345	26	
m134478	26	

NAS1149C0463R Purchased No

110 Each 268.0000 1 1

NAS1149C0463R

Washer

**

OCT 13 2016

DAS 28
6 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
FP001	64	
m127306	64	
ST260a	200	
m134167	200	
ST266	4	
m133077	4	

D3413-1 Manufactured No

110 Each 37.0000 1 1

D3413-1

O-Ring

**

OCT 13 2016

DAS 28
6 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
st530	37	
136462	3	
142835	14	
145648	20	

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Shop Packet Print

Page 9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Monday, August 29, 2016 3:06:13 PM

Page 10

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

D2712 Manufactured No 110 Each 349.0000 10 10

D2712

Set Screw

OCT 13 2016

DAS 6 28
9-89 9-89

Location	Loc Qty	Loc Code
FG	55	
29962	55	
ST009	144	
140532	9	
141690	25	
149832	100	
89929	10	
ST012a	150	
147570	50	
147801	50	
149148	50	

DAS 27
9-89

D2934

Manufactured No

110 Each 56.0000 2 2

D2934

Saddle Spacer

OCT 13 2016

DAS 6 28
9-89 9-89

Location	Loc Qty	Loc Code
FG	6	
31929	6	
ST014	50	
147488	30	
149798	20	

DAS 27
9-89

2

Picklist Print

Monday, August 29, 2016 3:06:13 PM

Page 11

Work Order ID: 150717

150717

Parent Item: D206-642-312

D206-642-312

Parent Item Name: Skidtube RH, Low & High Gear with Standard Wearplates

Start Date: 8/17/2016

Required Date: 8/29/2016

Start Qty: 1.00

Required Qty: 1.00

D2935

Manufactured No

110

Each

67.0000

2

2

D2935

Saddle Spacer

DAS

6

9-89

DAS

28

9-89

OCT 13 2016

Location

Loc Qty

Loc Code

FG

6

31793

6

ST014

41

146008

11

147574

30

ST025A

20

149835

20

DAS

27

9-89

DAS

27

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																														
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																										
								Lead hand / Supervisor Approval Verification																																																										
								QC / QA Coordinator Approval																																																										
Root Cause		FAULT CATEGORY																																																																
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				
Misidentified ☐	Past Due ☐																																																																	

Work Order ID 150717

Thursday, October 13, 2016 11:14:09 AM

150717

Page 1

Item ID: D206-642-312**Accept*****N900040100*****Setup Start*****NS1*****Revision ID:****Stop*****NS2*****Item Name:** Skidtube RH, Low & High Gear with Standard Wearplates**Start Date:** 8/17/2016 **Start Qty:** 1.00***1*****Cust Item ID:****Required Date:** 8/29/2016 **Req'd Qty:** 1.00***1*****Customer:****Reference:****Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____**Run Start*****NR1*****QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____**Stop*****NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

IIN-D206-642	Q
--------------	---

DAS
21
9-89

OCT 13 2016

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels per PPP D206-642-312 CHG008

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

4.5 206 L/L-1/L-3/L-4/407 LOW & HIGH GEAR SKIDTUBES

ITEM	QTY -311	QTY -312	QTY -313	QTY -314	QTY -341	QTY -357	QTY -349	QTY -351	QTY -013	PART NUMBER	DESCRIPTION
	X									D206-642-311	SKIDTUBE INSTALLATION, LH
		X								D206-642-312	SKIDTUBE INSTALLATION, RH
			X							D206-642-313	SKIDTUBE INSTALLATION, LH
				X						D206-642-314	SKIDTUBE INSTALLATION, RH
1	1	1			X					D206-642-341	SKIDTUBE
						X				D206-642-357	WEARSHOE KIT (REPLACES -347)
							X			D206-642-349	RUN-ON LANDING WEARPLATE KIT
			1	1				X		D206-642-351	SKIDTUBE
	1	1	1	1					X	D206-648-013	GROUND HANDLING KIT
1					1					D2650-5	SKIDTUBE ASSEMBLY
1								1		D4361-041	SKIDTUBE ASSEMBLY
2A					14			4		D2651-1	* PLUG ⁽¹⁾
2B					14			4		D2651-3	* O-RING ⁽¹⁾
3					1			1		D2646	* AFT CAP ⁽¹⁾
4					2			2		MS27039-1-08	* SCREW ⁽¹⁾
5					2			2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1							D2932-1	SADDLE, FWD OUT, LH
6		1		1						D2932-2	SADDLE, FWD OUT, RH
7	1		1							D2933-1	SADDLE, FWD IN, LH
7		1		1						D2933-2	SADDLE, FWD IN, RH
8	1		1							D2938-1	SADDLE, AFT OUT, LH
8		1		1						D2938-2	SADDLE, AFT OUT, RH
9	1		1							D2939-1	SADDLE, AFT IN, LH
9		1		1						D2939-2	SADDLE, AFT IN, RH
10	8	8	8	8						AN3-41A	BOLT
11	16	16	16	16						D2652	BUSHING
12A	8	8	8	8						MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8						NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4						AN5-10A (OR AN5-11A)	* BOLT ⁽²⁾
14	4	4	4	4						AN5-11A (OR AN5-12A)	* BOLT ⁽²⁾
15	8	8	8	8						NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12						AN4-6A	BOLT
17	24	24	24	24						NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12						MS21042-4	NUT (OR MS21042L4)
20A					6	6				D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1				D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1				D4956-11	WEARSHOE (REPLACES D3535-11 + D3536-11)
23A					1	1				D4956-23	WEARSHOE (REPLACES D3535-23 + D3536-23)
24A					1	1				D4956-35	WEARSHOE (REPLACES D3535-35 + D3536-35)
26A					54	54				MS27039C1-08	SCREW
26B					54	54				NAS1149C0332R	WASHER (OR AN960C10L)
26C					54					ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1	1	1						D3407-043	TOW RING ASSEMBLY (REPLACES D2968-043)
32A	1	1	1	1						D3456-1	WASHER
32B	2	2	2	2						D3457-1	WASHER
33	1	1	1	1						MS21043-4	NUT
34	1	1	1	1						AN4C5A	BOLT
35	1	1	1	1						NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1						D3413-1	RING (REPLACES D2655)
37	10	10	10	10						D2712	SET SCREW
38	2	2	2	2						D2934	SADDLE SPACER
39	2	2	2	2						D2935	SADDLE SPACER
40									2	D3414-041	GHW LUG (REPLACES D2659)
41									4	AN3C37A	BOLT
42									8	D2652	BUSHING
43									4	MS21043-3	NUT
44									4	NAS1149C0363R	WASHER (OR AN960C10)

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